



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1638  
Examiner : A. Kubelik  
Serial No. : 09/251,638  
Filed : 02/17/99  
Applicant : Henry Daniell  
Title : GENETIC ENGINEERING  
: OF COTTON TO INCREASE  
: FIBER STRENGTH, WATER  
: ABSORPTION AND  
: DYE BINDING

Customer No. 022469

Docket: 1483-R-00

Dated: November 8, 2001

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AMENDMENT AND ARGUMENT

Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Official Action dated August 8, 2001, Applicants amend as follows:

Marked-Up Version Showing Changes Made to the Claims

1. (Amended) A transgenic cotton plant comprising fiber cells stably transformed with an expression cassette comprising a gene encoding a an elastic and plastic protein based polymer (PBP) exhibiting wherein said fiber cells exhibit improved-increased water absorption, ~~thermal characteristics~~, fiber strength, ~~chemical reactivity including elasticity~~, and dye binding capacity relative to untransformed fiber cells.

2. (Amended) The transgenic cotton plant of claim 1, ~~which contains~~ wherein said gene encodes the repetitive amino acid sequence GVGVP Gly-Val-Gly-Val-Pro (SEQ. ID. NO. 2).

3. (Amended) ~~A~~ An expression cassette ~~which comprises~~ comprising a fiber specific promoter driving the expression of a gene encoding an elastic and plastic protein